

CLAIMS

1. A method for producing an antibody wherein the method comprises inhibiting contact between a first light chain (L chain) and a second heavy chain (H chain), which are not linked to a first H chain and a second L chain respectively, and inhibiting contact between a first H chain and a second L chain, which are not linked to a first L chain and a second H chain respectively.

2. A method for producing an antibody wherein the method comprises expressing a first pair and a second pair of the antibody at different times.

3. A method for producing an antibody, wherein the method comprises the following steps:

- (a) expressing a first H chain and a first L chain to prepare a first pair of the antibody,
- (b) expressing a second H chain and a second L chain to prepare a second pair of the antibody, and
- (c) preparing the antibody using the first pair and the second pair.

4. A method for producing an antibody wherein the method comprises the following steps:

- (a) inducing the expression of a first H chain and a first L chain to prepare a first pair of the antibody,
- (b) turning off the induced expression of the first H chain and the first L chain,
- (c) inducing the expression of a second H chain and a second L chain to prepare a second pair of the antibody, and
- (d) preparing the antibody using the first pair and the second pair.

5. The method of any one of claims 1 to 4, wherein the amino acid sequences of the first and the second H chains are different, and the amino acid sequences of the first and the second L chains are different.

6. The method of any one of claims 1 to 5, wherein the antibody is a bispecific antibody.

7. The method of any one of claims 1 to 6, wherein the antibody is unlikely to be formed from a combination of just the first pairs or the second pairs.

8. The method of any one of claims 1 to 7, wherein the antibody which is unlikely to be formed from a combination of just the first pairs or the second pairs is prepared using the knobs-into-holes technique.

9. A method for producing an antibody, the method comprising using a vector in which expressions of a first H chain and a first L chain can be induced by a first expression regulator; and a vector in which expressions of a second H chain and a second L chain can be induced by a second expression regulator.

10. A method for increasing the specific activity of an antibody composition by

increasing the proportion of an antibody that comprises a first pair and a second pair in the antibody composition.

11. A method for increasing the specific activity of an antibody composition by expressing a first pair and a second pair of the antibody at different times.

5 12. A method for suppressing the production of antibodies other than an antibody comprising a first pair and a second pair by expressing the first pair and the second pair of the antibody at different times.

13. A method for expressing a first pair and a second pair of an antibody at different times, wherein the method comprises using two or more distinct expression inducing agents.

10 14. An antibody produced according to any one of claims 1 to 9.

15. An antibody composition having a high proportion of an antibody comprising a first pair and a second pair, compared to an antibody composition produced by simultaneously expressing a first and a second H chains, and a first and a second L chains.

15 16. The antibody composition of claim 15, wherein the L and H chains of the antibody are not linked by a peptide linker.

17. A vector in which expression of an L chain or an H chain of an antibody can be induced by an expression inducing agent.

20 18. A vector kit comprising a vector in which expression of a first L chain and a first H chain of an antibody can be induced by a first expression regulator; and a vector in which expression of a second L chain and a second H chain of the antibody can be induced by a second expression regulator.

19. A cell comprising a vector of claim 17 or 18.

20. A cell capable of expressing a first pair and a second pair of an antibody at different times.